



BASIC

MicroGame #2...

CHITIN:I

THE HARVEST WARS

On a far planet, summer is ending. It is the time of harvest. And across the fields pour the Hymenoptera – intelligent insects with only one goal...more food for the Hive.

Chitin I is a tactical abstract from Metagaming's *Hymenoptera* game system. It simulates a battle between two hive cities struggling for greater shares of food – the harvest, or the bodies of the enemy! Workers, Fliers, Basics, and the different types of warriors they command make *Chitin I* a detailed yet easy-to-learn game in a setting that may really exist...somewhere...

Science fiction fans and gamers alike will enjoy *Chitin I*.

This is the second in a new series – MicroGames. Small in format but big in play value, MicroGames are for the person who enjoys games but hates to spend a lot of money – or can't play all day.

But MicroGames aren't kid stuff. They're challenging, fast-moving, and fun. When you finish one game, you'll want to play more – and you can.

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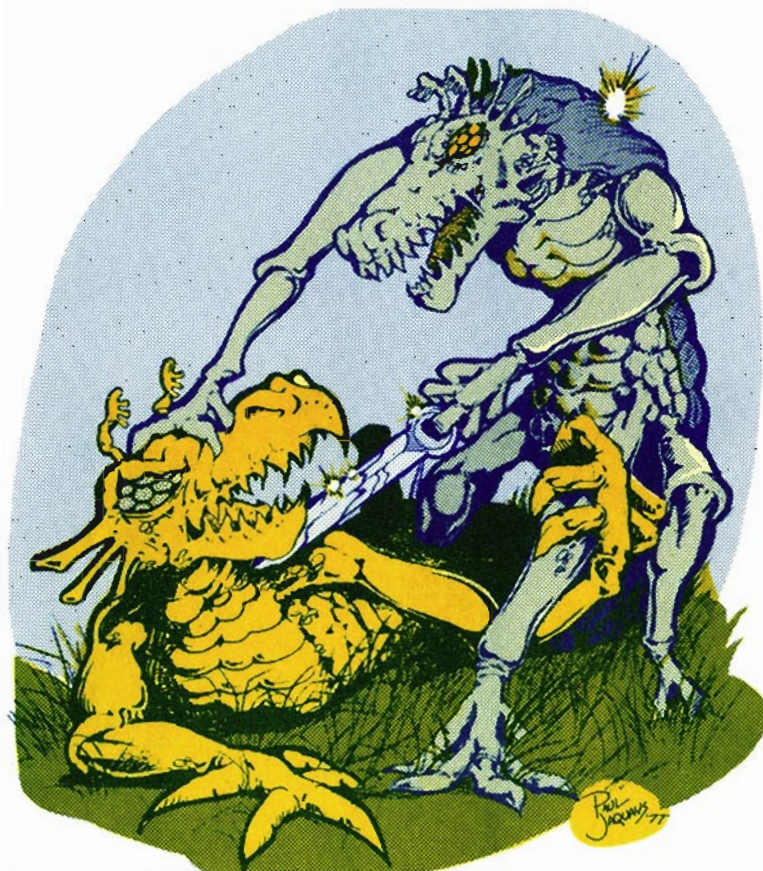
- 8¼" x 14" game map
- 112 unit counters
- Illustrated rules booklet

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P. O. Box 15346
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CHITIN:I

THE HARVEST WARS



MICROGAME® #2

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8.035 Moving Out Of Command Control. Units may freely move out of command control range, using their normal or charge movement, as long as they began movement in control range. They may attack or charge-attack normally at the end of their move. The disruption will take effect at the beginning of their next move if there is still no friendly Basic in their megahex.

8.04 Food Value of Dead Units. This rule takes into account the fact that dead units are edible — and that, in its search for food, a Hive will not overlook them.

8.041 Adding Bodies to Harvest Chits. A list should be made, at the beginning of each game, of the Harvest Chits being used and their values. Whenever a unit is killed, add 1 to the value of the nearest Harvest Chit in the megahex — if more than one are equally close, determine which by die roll. Thus, the more combat takes place over a chit, the more valuable it will become.

8.402 Starting New Harvest Chits. When a unit is killed and there is no Harvest Chit in the megahex, place one of the Harvest Chits without a number on the hex where that unit was killed, and add the letter of that chit to the list being kept. Thereafter, treat that Harvest Chit like any other Harvest Chit.

8.403 Limit to Chit Value. No Harvest Chit may be worth more than 30 points, that being the limit to the weight a Worker unit can carry. Instead of letting dead units increase a chit past 30 points, add new bodies to the next closest chit in the megahex or start a new chit in the same hex, adding all further bodies to it. Of course, a second Worker will be required to move the new chit.

PHLANX



8.02 Charge Attacks. Gantua and Phlanx units may make "charge attacks," as indicated by the C after their movement factor in the upper right-hand corner of the counter. The owning player has the option to declare a charge attack during the movement phase. Rules governing charge attacks are:

8.021 Movement Bonus. A unit which charges gets two extra movement points. It does not have to use all of its movement allowance to make a charge attack, but *must* attack at the end of movement in order to get the charge movement bonus.

8.022 Attack Strength Bonus. A unit which makes a charge attack has its strength doubled (*BEFORE* adds) for that attack.

8.023 Results. A unit which made a charge attack undergoes all combat results normally.

8.024 Disruption After Charge. Units which make a charge attack become disrupted after combat results are applied and advance-after-combat, if any, takes place.

8.025 Charging After Disruption Forbidden. A unit which began its movement phase disrupted may not make a charge attack during the attack phase. Thus, a unit may never make charge attacks in two successive turns.

8.026 Charge Attack Illustration. A Gantua 12-6 counter — 3 GT units — begins its movement in a megahex under command control. It is not disrupted. That counter may execute a "charge attack," with a movement allowance of up to 6 points: its normal move of 4 plus 2 extra for the charge. Its combat strength of 12 is doubled to 24 for that attack, before any class add or rear-attack add is made. The Gantua units do not lose any effect of the charge if they end movement in a megahex out of command control (see Section 8.03). They will not be able to make a charge attack again next turn, since they will be disrupted. If the enemy attacks them on his next turn, they will defend at the disrupted strength of 6.

8.03 Command Control. This rule simulates the telepathic command ability of the Basic units. Although the Basics are not fighters, they are needed to control the warriors.

8.031 Definition of Control. Units are in command control during a move if one of their Basics is in the megahex where they BEGIN that move.

8.032. Units requiring control. Ground warrior units require control. Fliers, Workers, and Basics do not.

8.033 Effects of Loss of Command Control. Any ground warrior unit which begins its movement in a megahex without a Basic in it is disrupted. It will be disrupted throughout that movement phase.

8.034 Control and Charge Attacks. Since units which began their move in a megahex without a Basic in it are disrupted, it follows that they cannot make a charge attack that turn. This will be true even if there is a Basic in their megahex by the end of the turn.



BASIC

CHITIN: I

THE HARVEST WARS

Tactical Combat from the *Hymenoptera* Game System

Game design by Howard Thompson

Edited by Steve Jackson

Illustrations by Paul Jaquays

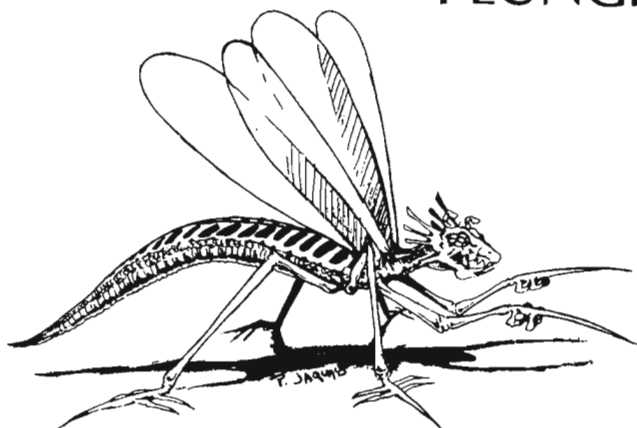
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The designer acknowledges philosophical inspiration and reading enjoyment provided by Jack Vance's *The Dragon Masters* and *The Last Castle* and Hellstrom's *Hive* by Frank Herbert. Thanks also go to Robert Taylor and Ben Ostrander, who provided playtesting and commentary, respectively.

A special thanks must also go to numerous readers of *The Space Gamer* whose constant interest in the *Hymenoptera* game system kept me at what has been a simultaneously demanding and rewarding work.

A Metagaming MicroGame

PLUNGE



8.013 Air Unit Combat. Air units use the same combat system and values as ground units, as well as the same Combat Results Table. Unit facing and class add rules do not apply to air units. Air units are never disrupted; if the CRT indicates disruption, they retreat instead. Air units which retreat are moved one megahex in any direction by the enemy player. Air units may not advance after combat. Dead air units count into harvest chits, and count against their owner's victory points, like all other units.

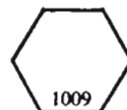
8.014 Compulsory Air Combat. Air units must attack enemy air units in any megahex they enter with at least equal strength. Excess air units not committed to combat with enemy air units may attack enemy ground units anywhere in the megahex. Example: A player moves five Plunge units into a megahex containing three enemy Plunge units. At least three of the entering units must attack the enemy air units. The other two entering units may join that attack, attack enemy ground units in that megahex, or – if they have sufficient movement left – enter another megahex. If a player moves a number of air units into a megahex smaller than the number of enemy air units in that megahex, all the entering air units must attack those enemy air units.

8.015 Air-Ground Combat. Ground units may never attack air units. Air units may always attack ground units (subject to the Compulsory Air Combat rule above) in the same megahex. When air units attack a given stack, they must include in that attack any enemy units in hexes adjacent to that stack *unless* some other unit is attacking those adjacent units. Enemy units in hexes adjacent to the adjacent hexes, and so on, do *not* have to be attacked.

2.00 GAME COMPONENTS

2.01 Map. The hex-grid map contains four types of terrain: plains hexes, river hexes, slope hexes, and forest hexes. More than one type of terrain may occur in a hex. These hexes affect movement and combat as explained in Sections 6.00 and 7.00. The map is divided into Megahexes by the heavier black lines. Each hex is numbered; these numbers may be used for controlling play-by-mail games.

Terrain features are:



Plains hexes: no markings. All ground units enter at a cost of one movement point.



River hexes: hexes containing meandering blue lines. Gantuas enter at a cost of one movement point; other units enter at a cost of two movement points.



Rough terrain hexes: These include forest hexes (light blue-green shading) and slope hexes (dark wavy lines). These hexes have the same effect on movement: Low Renders enter at a cost of one movement point; other units enter at a cost of two movement points. Forest hexes halve the combat strength of air units attacking ground units (see Section 8.01).

Megahexes are the heavy outlined groups of 19 smaller hexes. Megahexes control harvest points (see Section 3.00), food points for dead units (see Section 8.04), and air unit movement (see Section 8.01).

2.02 Counters. There are two types of counters: playing counters and Harvest Chits.

2.021 Playing Counters. Each side has 56 counters (which must be cut apart), indicating different types and numbers of units. Each "unit" actually represents a number of insects.

2.022 Combat Units. There are five classes of combat units: Renders (R), Hackers (H), Thrusters (T), Smashers (S), and Flyers (F). *Chitin I* uses only one type from each of these classes; *Hymenoptera* has many more. Basics are treated as combat units, although their real function is to provide command control (see Section 8.03).

Each combat unit counter shows (a) a unit silhouette; (b) the number of units represented by that counter; (c) the combat strength and disrupted combat strength; (d) its regular movement allowance, and whether it can use charge movement; (e) the initials for the unit type and class. Examples:



The silhouette and GN abbreviation show this is a Gantua counter. The three black dots mean 3 ground units. The combat strength is 12; the disrupted strength is 6. Regular movement is 4; the C means Gantuas can charge. The S means these units are Smashers.



The silhouette and PL abbreviation show this is a Plunge counter. Two wedges mean 2 air units. The combat strength is 4; there is no disrupted strength because fliers don't disrupt. Movement is 2 megahexes. The F means the units are Fliers.

2.023 Worker Units. The Worker is a special type of unit. A Worker has only defensive strength; it cannot attack. Workers have no zone of control. Workers are the only units that can pick up Harvest Chits. The Worker counter represents one unit. It has a defensive strength of 1 and a movement allowance of 4.

2.024 Harvest Chits. These are the small counters. Some Harvest Chits bear both a number and a letter; others, only a letter. Those with letters and numbers correspond to the seven lettered megahexes in the center of the map; they are placed before the game according to the scenario being played (see Section 3.00). The Harvest Chits without numbers are used only with the advanced rules, and are placed on the map to represent food value of dead units.

3.00 SETUP FOR PLAY

Each player selects one set of counters to represent his hive's forces. The makeup of the armies is specified in the scenarios below.

3.01 Harvest Chit Placement. Harvest Chits are placed in the lettered hexes in the center of the map. Each scenario specifies which Harvest Chits are to be used.

3.02 First Move. Each player rolls a die. The high roller chooses either first move or the end of the map he/she will start from. The low roller moves second and chooses starting end if the high roller chose to move first, or vice versa.

3.03 Scenarios. Each of the following scenarios represents a possible battle. In each case, forces are evenly matched. As a rule, players should start with the Learning Scenario and work up.

3.031 Learning Scenario. Harvest Chits A, C, and F are used. Each player takes 3 Gantua units, 3 Phlanx units, 3 Termagant units, 3 Low Render units, and 6 workers. No advanced rules are used. The winner is the player whose workers exit his side of the map with at least two of the Harvest Chits.

An AD result means all attacking units in that combat are disrupted. A DD means that all units defending in that combat are disrupted. Disrupted counters may be flipped over so players may easily keep track of their status.

7.065 Which Units May Be Disrupted. The four types of ground warrior units are the only ones subject to disruption. Fliers, Basics, and Workers never suffer disruption. When the CRT indicates disruption for Fliers or for a stack composed wholly of Basics and/or Workers, they retreat. Basics and/or Workers in a stack with disrupted warriors stay with the stack, but are not disrupted; the stack does not retreat.

7.066 Retreat. The Combat Results Table indicates "retreat" results by AR and DR. An AR result means all attacking units in that combat must retreat. A DR means all defending units in that combat must retreat. Units forced to retreat are moved one hex in any direction by the enemy player. Stacks may not be split up in retreat. If a stack of units is completely surrounded by enemy units, friendly units with which it cannot stack, or the map edge, it loses ONE unit instead of retreating. When units are forced to retreat, the enemy player may move any of his ground units in that combat into the hex formerly occupied by the defender, and change facing on any of his other units which were involved in that combat.

7.07 Overrun Attacks. When the attack strength in a given attack is 6 or more times greater than the defense strength — that is, when the combat odds are 6 to 1 or better — the attack may be an "overrun." The defenders are automatically eliminated during the MOVE-MENT phase. The attacker(s) may proceed through the hex formerly occupied by the overrun defenders at a cost of two movement points (plus terrain effects if any). They suffer no losses, and may make a regular attack at the end of their movement.

8.00 ADVANCED RULES

The advanced rules below expand *Chitin I* to the fullest. They should be added by players after they have mastered the learning and basic scenarios. Experienced players may find that starting with the advanced rules is more suited to their play style.

8.01 Air Movement and Combat. The only air unit provided in *Chitin I* is the Plunge. It is a warrior unit that can enter into ground combat or fight enemy air units.

8.011 Air Unit Movement. Air units move at the same time as ground units. Their movement is computed in megahexes. Each Plunge unit may move two megahexes per turn. Air units are considered present in every hex of the megahex they occupy; they may be placed anywhere in a megahex and may attack ground units in any hex of that megahex. Terrain does not affect air movement.

8.012 Air Unit Stacking. There is no limit to the number of air units that may occupy one megahex.

7.05 Enemy Units in Rear Hexes. A unit cannot attack enemy units behind it. However, any stack which **BEGINS** an attack phase with an undisrupted enemy warrior unit behind it will lose one extra unit (owning player's choice) after combat, *unless* all the enemy units behind it are attacked during that turn. In other words, if something doesn't keep those enemy units busy, they will jump on you while your backs are turned...

7.06 Resolving Combats. After the odds for each particular combat have been calculated, that combat is resolved. The attacker rolls one die and consults the Combat Results Table shown on the map.

7.061 Odds Calculation. Total the combat strength of each attacking stack, adding any class adds and adds for attacking from the rear. Add all these to get the total attack strength. Total the combat strength of the defending stack(s) and add them together. Now figure the ratio of the attackers' to the defenders' strength, rounding down *IN THE DEFENDERS' FAVOR* to one of the odds shown on the Combat Results Table. For example, a strength of 20 attacking a strength of 12 is not quite enough for a "2 to 1" attack; it would be rounded down to "3 to 2."

7.062 Combat Resolution. After the odds for a combat are calculated and the attacker has rolled the die, the Combat Results Table shows the results of that combat. The intersection of the number rolled with the combat odds gives the result; for instance, a 2 rolled on a "1 to 2" attack gives an "A-1" result. Possible results are:

7.063 Combat Losses. Lost units are indicated by the notation A-(number) or D-(number). For instance, A-2 means the attacker loses 2 units. D-3 would mean the defender loses 3 units. The owning player always selects which units are to be lost from among those involved in that combat. If the CRT shows that more units are lost than the player actually had (for example, D-3 when the defender had only one unit), no other units are lost. If the loss means that a counter representing a number of units must be replaced by a counter representing fewer units, this is done immediately.

7.064 Disruption. Disrupted counters suffer no losses, but become confused and ineffective. Disruption is indicated by AD (attacker disrupted) or DD (defender disrupted) on the Combat Results Table. Disrupted units:

- (a) may move only one hex (regardless of terrain) in the next movement phase.
- (b) may never move into a hex in an enemy zone of control.
- (c) attack and defend at the disrupted combat strength - the second number in the upper left-hand corner.
- (d) become undisrupted at the end of their next movement phase, and may attack (but never charge-attack) at that time.

3.032 Basic Scenario. Harvest chits, A, B, C, D, E, F, and G are used. Each player selects a force of warriors totaling 48 points in combat strength. Each player also gets 6 workers. No advanced rules are used. The winner is the player whose workers exit his side of the map with at least four of the Harvest Chits.

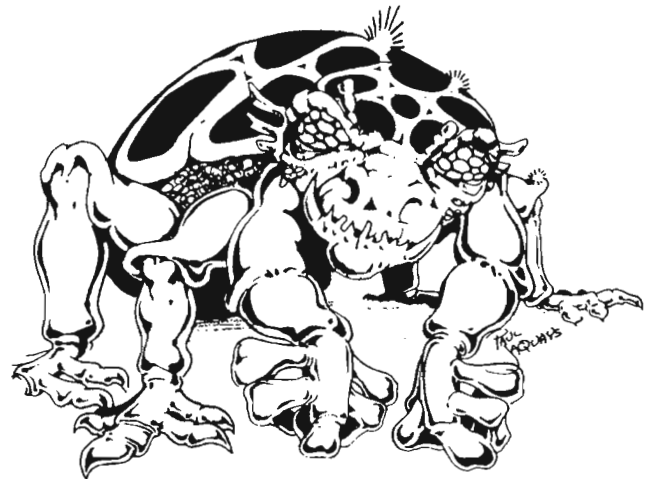
3.033 Small Scenario. Harvest Chits A, C, and F are used. Each player selects 48 combat strength points of warriors and Basics. Each player gets 6 workers. No more than 8 combat strength points of Plunge units may be used. Use all advanced rules (see Section 8.00) and the Advanced Victory Conditions (see Section 4.0)

3.034 Intermediate Scenario. Harvest Chits A, B, C, D, E, F, and G are used. Each player selects 60 combat strength points of warriors and Basics. Each player also gets 6 workers. No more than 12 combat strength points of Plunge units may be used. Use all advanced rules and the Advanced Victory Conditions.

3.035 Advanced ("Bitter End") Scenario. Harvest Chits A, B, C, D, E, F, and G are used. Each player selects 78 combat strength points of warriors and Basics. No more than 16 combat strength points of Plunge units may be used. Use all advanced rules and the Advanced Victory Conditions.

3.036 All-Units ("Armageddon") Scenario. Harvest Chits A, B, C, D, E, F, and G are used. Each player takes all the units of his color. This is purely a game of maneuver, since you have no chance to outguess your opponent with your selection of forces. It tends to be long and bloody.

GANTUA



4.00 OBJECTIVES AND ENDGAME

4.01 Basic Victory Conditions. Learning and Basic Scenario victory conditions are simple; the player who moves the most Harvest Chits off his/her end of the map wins.

4.02 Advanced Victory Conditions. In games using the Advanced Rules, a more complex and realistic scoring system is used. Each player is required to keep a record of victory points on a piece of scratch paper. One player will also need to keep a record of dead units added to each Harvest Chit (see Section 8.04). Victory points are computed as follows:

4.021 Harvest Chits. Each Harvest Chit counts at its face value, if any, plus one for each dead unit added to it.

4.022 Lost Units. Two points are *subtracted* from a player's score for each unit -- Basic, Worker, or warrior -- that that player loses.

4.023 Example. A player gets Harvest Chit A (face value 20) off his edge of the map. Five dead units had been added to that chit -- so its total value is 25. If all five of the dead units had belonged to that player, 10 points would be subtracted from his final score. In other words, final score is computed by adding the values of all Harvest Chits and dead bodies a player gets off the map, and subtracting two points for each unit that he/she lost.

4.03 Basic endgame. Basic and Learning scenarios end when all Harvest Chits have been moved off the map.

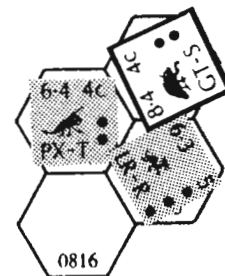
4.04 Advanced endgame. The advanced-rule scenarios end when all Harvest Chits specified in the beginning setup have been moved off the map. Players compute victory points at that time, ignoring all units and other Harvest Chits left on the map. This gives a relatively short game.

LOW RENDER

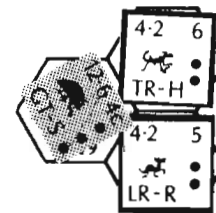


can get class adds, but the others don't. The same holds true for attacks from the rear, except that only ground units are considered. See the Combat Examples below.

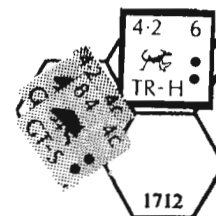
The Phlanx 6-4 counter (PX) and the Low Render 6-3 counter (LR) are attacking the Gantua 8-4 counter (GT) from the Gantua's front. The Phlanx are in a charge attack, designated as they moved; therefore, their strength is doubled. They also get one class add per unit because they are attacking Smashers. The attackers' combat strength is $(6 \times 2) + 2$, or 14, for the Phlanx, plus 6 for the Low Render; a total of 20 to the defenders' 8. The attack odds are 20 divided by 8 = $2\frac{1}{2}$, so the attack is rounded down to 2 to 1 odds.



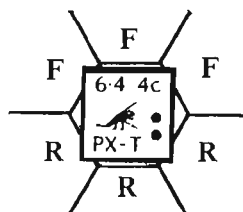
The Gantua (GT) 12-6 is attacking both the Termagant (TR) 4-2 from the rear and the Low Render (LR) 4-2 from the front. It is not a charge attack. The three Gantua units get no adds, so the attack is at 12 to 8, or 3 to 2 odds.



However, if the Gantuas were attacking only the Termagants, they would get +3 (one for each Gantua unit) for attacking from the rear, and another +3 because they were Smashers attacking Hackers. In that case, the odds would be $12+3+3 = 18$ to 4, which would round down to 4 to 1 odds.



Adds for each attacking stack are computed separately and the totals combined to give total attack strength for each attack.



In these rules, a reference to "in front of" a counter will mean in one of the three adjacent front hexes. "Behind" or "to the rear of" a counter will mean in one of the three adjacent rear hexes.

All units in a stack have the same facing. A ground unit may attack *only* units in front of it.

7.03 Combining Attacks. Two or more stacks may attack one enemy stack, as long as the stack being attacked is in front of both attackers. One stack may attack two or even three stacks, as long as all stacks attacked are in front of it. Remember: any enemy stack in front of one of your units after movement *MUST* be attacked somehow.

7.04 Combat Adds. There are three ways in which an attacking stack may increase its strength for an attack: by attacking from the rear, by attacking the type of unit against which it fights best, or, in the Advanced Game, by making a "charge attack" (Section 8.02).

7.041 Attacks from the Rear. When a stack attacks from one of the enemy's three rear hexes, it gets one additional point of combat strength (in that attack) for each unit in the stack. Thus, two Termagants (4 combat strength points) attacking an enemy stack from the rear would add two points - one for each Termagant unit - for a total of 6 points in that attack.

7.042 Class Adds. Each type of warrior unit has one other type against which it fights exceptionally well. These are shown under "Class Adds" with the Combat Results Table and below:

Smashers are best against Hackers.

Hackers are best against Renders.

Renders are best against Thrusters.

Thrusters are best against Smashers.

When the warriors in the defending stack (regardless of Workers or Basics in either stack) are of the type the attacking warriors are best against, each attacking unit gets one additional point. For example, Hackers are best against Renders. If the two Termagants in the above example were attacking Renders (whether or not there were Workers or Basics in either stack), they would get *another* two combat points - one for each unit of Termagants - in that attack. Units get class adds whether or not they attack from the rear, and class adds are *in addition to* adds for attacking from the rear.

7.043 Combat Adds in Combined Attacks. If one stack is attacking two or more stacks, it gets no class adds unless ALL the warriors attacked are of the type it is best against. If two or more stacks are attacking one stack, the warriors attacking warriors of the right type

4.05 Alternate advanced endgame. The "first off" endgame rule can be used instead. This rule lets the game continue until all of one player's units have left the map. The player whose units are still on the map then credits his victory point total with all Harvest Chits left on the map. This scenario tends to yield long, running battles. Use of this rule with the larger scenarios effectively converts *Chitin* into a full-sized four-hour tactical game.

5.00 SEQUENCE OF GAME EVENTS

Turns alternate between players. Each player moves his/her units and resolves combats caused by those movements, in the following sequence:

- (1) Move all ground and air units according to Ground Movement and Air Movement rules.
- (2) Turn all disrupted units right-side-up. They are now undisrupted.
- (3) Resolve all combats as follows:
 - (a) Announce which units are attacking which enemies, whether charge attacks are being made, and what the odds are for each attack.
 - (b) Roll the die for each combat and apply the results. Remove destroyed counters; replace affected counters with smaller ones where not all units were lost. The defending player retreats all the attacking units that rolled an "AR" result; the attacker retreats all defending units that received a "DR" result. Each player may then advance or change facing on any of his/her ground units which eliminated or forced retreat of enemy ground units.
- (4) If the Advanced Victory Conditions are being used, record the number of units lost by each side, and add the units lost to the values of the nearest Harvest Chit in the megahex(es), starting new Harvest Chits as necessary.

It is now the other player's turn to go through Steps 1-4 as outlined above.

6.00 GROUND MOVEMENT

6.01 Moving onto the Map. All units are assumed to start in a non-existent hex next to the short edge of the map, i.e., the ends of the map next to the Combat Results Tables. They move onto the map by paying the normal entry cost for the hex they move into.

6.02 Movement Allowance. Each counter has a certain number of movement points, shown in the upper right-hand corner. (Some counters also have a C in the upper right-hand corner. This means those units can charge - see Section 8.02.) It costs a certain number of movement points to enter each hex, as described below. A counter never has to move at all, and never has to use all its movement points, but it can never exceed its movement allowance or save movement points from one turn to another.

6.03 Terrain Effects. Ground units are affected by the terrain shown on the map. It costs all units 1 movement point to enter a

plains hex. All other types of terrain cost 2 to enter, except that Gantuas only pay 1 to enter river hexes (they are so big, they just wade through), and Low Renders only pay 1 to enter rough terrain hexes (they just scuttle across).

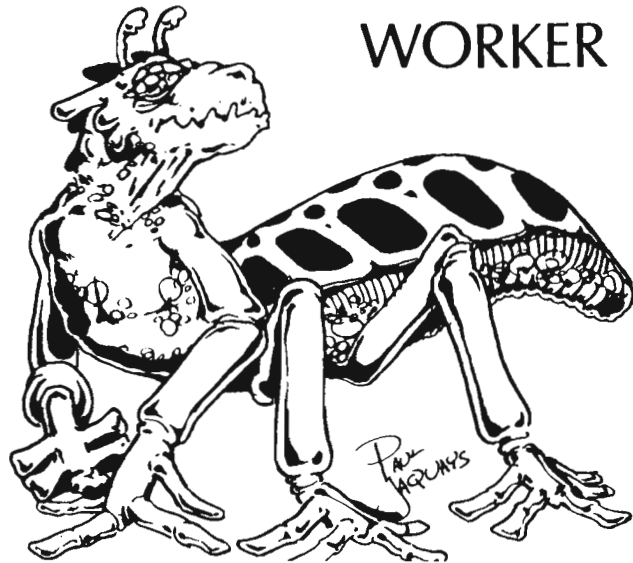
6.031 Combined Terrain Effects. It never costs more than 2 to enter a hex on account of terrain. If a hex contains (for instance) both a river and rough terrain, all types will pay 2 to enter it, but not more than 2 (unless it is in an enemy zone of control – see the next section).

6.04 Zones of Control. Each ground unit (except workers) exerts a zone of control in the six adjacent hexes. It costs one *extra* movement point to enter *each* hex in an enemy zone of control. Thus, a River/Rough Terrain hex in an enemy zone of control would cost 3 to enter.

6.05 Stacking. Only three ground units may stack in any hex. Each black dot on a counter represents one unit – so no hex may ever contain more than three dots' worth of counters...two warriors and one Basic, for instance.

6.051 Warrior stacking. Different types of warrior units may never be placed in the same hex; they are too stupid not to fight among themselves in such close quarters. Basics and Workers may stack with any units, but Gantuas may stack only with Gantuas, Phlanx with Phlanx, etc.

6.06 Facing. Each ground unit must be "faced" toward one of the six sides of its hex when it finishes a move. This is very important in combat. The top of the counter is considered to be the



direction in which the unit is facing – see examples in Section 7.00. All units in a hex have the same facing.

6.07 Leaving the Map. Units may leave the map only at the end at which they entered. No combat unit may reenter the map once it has left. Workers may move back and forth off the edge of the map, paying one movement point to leave and the appropriate cost for the hex they re-enter.

6.08 Worker movement. Special rules for the Worker counters include:

6.081 Harvest chits. The workers are the only units that can pick up and carry the Harvest Chits. The Worker just moves into the hex containing the chit; thereafter the chit moves with the Worker. No Worker may carry more than 30 food points; therefore, if a chit would reach 31 points (in the advanced game), a new chit must be started instead. Each Worker unit may carry only one chit at a time. If a Worker carrying a chit is killed, the chit remains in that hex until it is picked up by another Worker. If two Workers are carrying a chit and one is killed, the other one keeps carrying it (and, in the advanced game, the dead Worker counts into the chit!).

6.082 Workers and ZOCs. A Worker has no zone of control. Furthermore, a Worker may never enter a hex in an enemy zone of control *unless* a friendly combat unit is in that hex or is moving with the Worker.

6.083 Replacement of Workers. Whenever a Worker unit is killed, it is (in the Advanced Rules) added to the food value of the nearest Harvest Chit and counted against its owner just like any other unit. However, on the next turn, its owner may start a new Worker unit from his/her side of the map. Thus, each Hive has an unlimited number of Workers – but only six are seen on the map at any one time.

6.09 Movement Through Enemy Units. Ground units may never move onto or through enemy ground units (exception: overrun attacks, Section 7.07.) Air units may pass over enemy ground units.

7.00 GROUND COMBAT

















































Ground combat is resolved after movement. If air units (Section 8.01) are being used, their combat is figured in with that of the ground units.

7.01 Stacks. Each stack of counters attacks and defends as a unit. A stack attacks at the combat strength (shown in the upper left-hand corner of the counter) of all warriors and Basics in the stack, plus any combat adds for facing or type of warrior attacked (see below). A stack defends at the combat strength of all warriors in the stack, plus 1 for each Basic and/or Worker. Note: whenever these rules mention a "stack," the rules also hold true for lone counters or single units.

7.02 Making Attacks. The attacker (the player who moved last) must attack all adjacent enemy units in *front* of his units. "Front" is determined by the facing of the units, as shown below:

















































METAGAMING

CHITIN: I

A	1	5	1	5	1	5	1	5	1	5	1	5	2	2m	2	2m
20		●		●		●		●		●		●		✓		✓
B	B		B		B		B		B		B		PL-F		PL-F	
10	1d	4	1d	4	1d	4	1d	4	1d	4	1d	4	2	2m	2	2m
C		●		●		●		●		●		●		✓		✓
15	W		W		W		W		W		W		PL-F		PL-F	
D	9-6	4c	9-6	4c	9-6	4c	6-4	4c	6-4	4c	6-4	4c	4	2m	4	2m
15		●		●		●		●		●		●		✓		✓
E	PX-T	●	PX-T	●	PX-T	●	PX-T	●	PX-T	●	PX-T	●	PL-F		PL-F	
10	3-2	4c	3-2	4c	3-2	4c	6-3	5	6-3	5	6-3	5	4	2m	4	2m
F		●		●		●		●		●		●		✓		✓
15	PX-T		PX-T		PX-T		LR-R	●	LR-R	●	LR-R	●	PL-F		PL-F	
G	4-2	5	4-2	5	4-2	5	2-1	5	2-1	5	2-1	5	8	2m	8-4	4c
15		●		●		●		●		●		●		✓		●
H	LR-R	●	LR-R	●	LR-R	●	LR-R		LR-R		LR-R		PL-F	✓	GT-S	●
I	6-3	6	6-3	6	6-3	6	4-2	6	4-2	6	4-2	6	8-4	4c	8-4	4c
J		●		●		●		●		●		●		●		●
K	TR-H	●	TR-H	●	TR-H	●	TR-H	●	TR-H	●	TR-H	●	GT-S	●	GT-S	●

METAGAMING

CHITIN: I

A	1	5	1	5	1	5	1	5	1	5	1	5	2	2m	2	2m
20		●		●		●		●		●		●		✓		✓
B	B		B		B		B		B		B		PL-F		PL-F	
10	1d	4	1d	4	1d	4	1d	4	1d	4	1d	4	2	2m	2	2m
C		●		●		●		●		●		●		✓		✓
15	W		W		W		W		W		W		PL-F		PL-F	
D	9-6	4c	9-6	4c	9-6	4c	6-4	4c	6-4	4c	6-4	4c	4	2m	4	2m
15		●		●		●		●		●		●		✓		✓
E	PX-T	●	PX-T	●	PX-T	●	PX-T	●	PX-T	●	PX-T	●	PL-F		PL-F	
10	3-2	4c	3-2	4c	3-2	4c	6-3	5	6-3	5	6-3	5	4	2m	4	2m
F		●		●		●		●		●		●		✓		✓
15	PX-T		PX-T		PX-T		LR-R	●	LR-R	●	LR-R	●	PL-F		PL-F	
G	4-2	5	4-2	5	4-2	5	2-1	5	2-1	5	2-1	5	8	2m	8-4	4c
15		●		●		●		●		●		●		✓		●
H	LR-R	●	LR-R	●	LR-R	●	LR-R		LR-R		LR-R		PL-F	✓	GT-S	●
I	6-3	6	6-3	6	6-3	6	4-2	6	4-2	6	4-2	6	8-4	4c	8-4	4c
J		●		●		●		●		●		●		●		●
K	TR-H	●	TR-H	●	TR-H	●	TR-H	●	TR-H	●	TR-H	●	GT-S	●	GT-S	●

A new breed of bug

by Ben Crowell

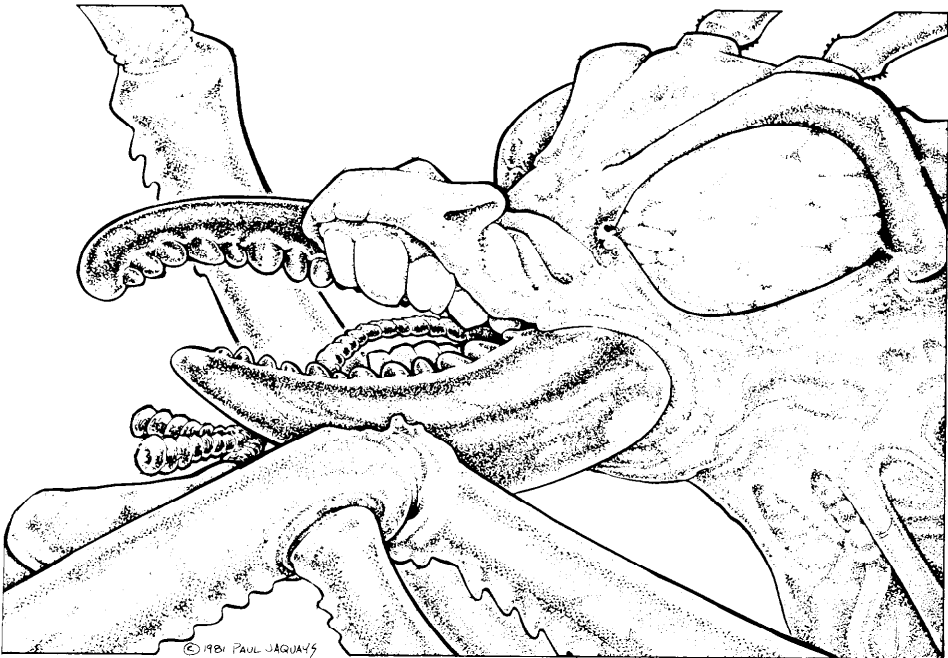
Chitin: I (*KITE-un*), Metagaming's MicroGame#2, portrays a battle between two competing hives of giant insects, both of which desperately need food—the year's harvest as well as the bodies of friends or enemies slain in combat.

The **Low Hacker** is a suggested new type of unit for Chitin: I, designed to introduce guerrilla warfare to the game. Low Hackers are warrior units, midway between Basics and Termagants in their capabilities and limitations. In appearance, they are distinguishable from Basics only by their hands/claws, which are well-suited for hacking, and by their chameleon-like ability to blend in with their surroundings.

Because of this camouflage ability, unique among the unit types in the game, Low Hackers receive bonuses to their combat strength when on defense. (When a Low Hacker is being attacked, the enemy units spend more time searching for it and keeping track of its whereabouts than actually engaging in combat against it.)

Combat: Low Hackers have a base combat strength of one per unit, up to a maximum of 3 for a 3-unit counter. Each stack containing at least one Low Hacker counter receives a bonus to its combat strength when on defense, the amount depending on what type of terrain the stack is in.

Rivers are not considered when computing defense adds. (A hex containing a river that flows through a plain is considered a plain hex, not a river hex.)



Terrain	Defense add per stack
Plains	+1
Slope	+2
Forest	+3
Forest & Slope	+4

It is important to remember that these adds are taken not on a per-unit basis, but for each entire stack. A stack of two single-unit Low Hacker counters and a single-unit Gantua counter does not have a defensive rating of 18 in a Forest & Slope hex; it has a rating of 10 (4 for the Gantua, 1 for each of the LH units, and a +4 bonus for the entire stack because of the terrain).

Low Hackers located behind attacking

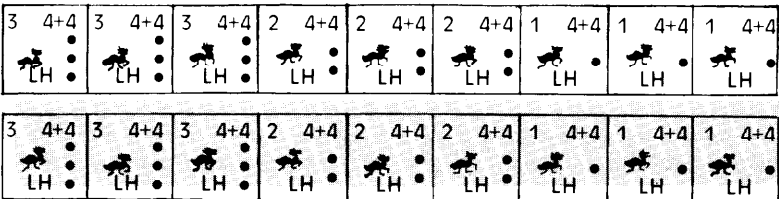
units (see rule 7.05, *Enemy Units in Rear Hexes*) will cause the attacker to eliminate two units instead of the usual one after combat.

Low Hackers are unaffected by zones of control, except for ZOCs exerted by other LH units. Normal units are forced to take evasive action (spend an extra movement point) when they enter a ZOC, but Low Hackers do this all the time anyway.

Low Hackers can never be disrupted, but may stack with other unit types which can be. This tactic can be risky, though: It is assumed that units which can be disrupted (all other ground warrior types) are those which are relatively less intelligent, and which therefore may

Make your own counters

The two rows of counters reproduced below can be used to add the Low Hacker to Chitin: I. There are nine counters provided for each side, three each of one-, two- and three-unit strengths.



To make the counter rows into usable playing pieces, first cut out or photocopy the section of this page containing the counters. Before separating the individual counters, glue the entire section to a piece of stiff cardboard or other type of backing material (self-adhesive vinyl floor tile is highly recommended for this purpose). When the backing is securely in place, individual counters can be cut out using scissors or a straight edge and a hobby knife.

be stupid enough to give away a Hacker's position. There is a 1 in 6 chance per turn that a Low Hacker which stacks with a disruptable unit will lose its defense bonus for that turn. This chance of being "given away" should be rolled separately for each disruptable counter in a stack.

Movement: Low Hackers have a movement ability unlike that of any other unit in the game. LH counters are allowed two moves of 4 movement points each, one during normal movement and one immediately after the attack phase. This simulates the fact that Low Hackers usually attack lone enemy units by surprise, gaining some extra time to disappear back into the forest (typically) before the body is discovered.

Low Hackers move through rough terrain at a cost of 1 movement point per hex entered, just like Low Renders. For stacking, treat Low Hackers as Basics.

Command control: Low Hackers are able to exercise command control just like Basics, but they forfeit one point of their defense add for every stack they control on a certain turn, up to the limit of the original defense add. (For example, a LH in clear terrain exercising command control over two other stacks still only loses a single point from its combat factor on defense.)

Flying units and Low Hackers: A Low Hacker in a hex adjacent to a unit being attacked by an air unit is not counted as part of the defense, like other units would be. If an air unit attacks a Low Hacker, the LH does not receive its normal defense add for terrain.

Optional rule 1: Air units may fly reconnaissance, being used to expose the presence of Low Hackers but not able to take part in combat in the same turn. This allows the air unit's allies on the ground to attack a stack containing a Low Hacker without counting the Low Hacker's usual defense add for terrain. One flying unit is needed for each stack so exposed. The flier, the stack containing the Hacker, and the attacking forces must all be in the same megahex.

Optional rule 2: Since most insects locate and distinguish between their friends and enemies by smell, it is assumed that Low Hackers are odorless. Because of this odorless characteristic and the generally unpredictable nature of a disrupted unit, it is possible that a disrupted warrior unit will mistake a friendly LH unit for an enemy. All units disrupted by the absence of command control (not by a combat result) which end their movement with a Low Hacker in one of their front hexes will have

50-50 chance of attacking it even if it is an ally. Such an attack against a friendly LH unit is conducted using the attacking unit's disrupted combat strength, with the Low Hacker's defense computed as usual, counting defense adds for terrain. The 50-50 chance may be determined for each LH unit, each stack, or for all the units involved at once, as players see fit.

Sample scenario: Harvest Chits A, B, and D are placed in hexes 1107, 1615, and 1409, respectively. Side A consists of 20 strength points of Basics and ground warriors (not including Low Hackers) plus 10 units of Low Hackers, placed anywhere in megahexes F, A, and

C before play begins. Side B has six Workers plus 48 strength points of ground warriors — no Low Hackers — and Basics, started at the bottom edge of the map. Side A has a maximum of 3 Plunge units, while Side B may have as many as 6.

Side B begins the game by moving its forces onto the map. At the end of every turn taken by Side B except for its first turn, Side A gets 3 victory points until Side B has grabbed all the Harvest Chits and either gotten them off the map or killed off all the opposition. Side A loses 1 victory point per dead unit, but Side B loses 4 victory points for each of its units which are killed.



THE ARCH REAPER

The Reaper is the result of several hundred generations of selected breeding from a mutant Phlanx. The resulting creature has a vestigial horn, two sickle-like appendages with which it can attack at close quarters, and a bifurcated tail covered in spikes. The Reaper can use its enormously strong tail to hurl these spikes at its opponents.

The Reaper has the following statistics: CS 3 (disrupted, 2), movement 4. The Reaper must expend 2 MPs to enter river or rough terrain, and one to enter any plain hex.

The Reaper will not stack with any units except for Basics and Workers. After all of its spikes have been expended, it may stack with other Reapers. Each Reaper counter has one dot and represents a single Reaper. Reapers are intelligent enough not to need the command control provided by Basics.

Reapers have two volleys of spikes. These volleys may both be used in the same round, but in that case must be used against the same target. Each volley has a CS of 8 (or if the Reaper is disrupted, 4). Players will want to number Reaper counters so that they can keep track of remaining volleys.

Volleys may be fired at a range of up to 4 against enemy ground units. If a Reaper is attacking an adjacent enemy, it may use its regular CS, its volleys, or combine the two. If a Reaper is attacking a non-adjacent enemy, then it will not suffer any adverse combat results unless it is attacking another Reaper also using ranged combat. If the Reaper combines its attack with friendly ground troops, the friendly troops will be affected by any adverse results of the attack.

Reapers may use their volleys against Plunges within the same megahex. If the Plunges are split into two groups, the Reaper may only attack one group. If a Reaper uses both volleys against Plunges, it receives one combat add. Plunges receive one combat add each when they attack disrupted Reapers.

For play balance and record-keeping purposes, the number of Reapers should be kept limited. The following are suggested maximum numbers of Reapers for each scenario, in addition to regular forces: Basic or Small - 2, Intermediate - 3, Bitter End - 4, Armageddon - 6.

Optional rule: if a friendly unit is adjacent to a Reaper's target and between the Reaper and its target, then the Reaper may not attack. If an enemy unit is in such a position, then the ranged CS of the Reaper is halved, but any negative combat result is applied to the intervening unit. If friendly units are also involved in such an attack, they suffer the negative combat results as well. Under this rule, Reapers may not combine attacks with friendly Plunges against enemy Plunges.

Units which get combat adds against specific types are:
Smashers against Hackers
Hackers against Renders
Renders against Thrusters
Thrusters against Smashers
Units attacking from the rear also get one add each, regardless of type.

COMBAT ADDS

1	1 - 4	A - 3	A - 2	A - 1	AD	DR	DD	D - 1	D - 2	D - 3	D - 4
2	A - 3	A - 2	A - 1	AD	DR	DD	D - 1	D - 2	D - 3	D - 4	
3	A - 2	A - 1	AD	DR	DD	D - 1	D - 2	D - 3	D - 4		
4	A - 1	AD	DR	DD	D - 1	D - 2	D - 3	D - 4			
5	A - 1	AD	DR	DD	D - 1	D - 2	D - 3	D - 4			
6	A - 1	AD	DR	DD	D - 1	D - 2	D - 3	D - 4			

	1-4	1-3	1-2	2-3	1-1	3-2	2-1	3-1	4-1
1	A-3	A-2	A-2	A-1	A-1	AD	AR	DR	D-1
2	<i>A-3</i>	<i>A-2</i>	<i>A-1</i>	<i>A-1</i>	<i>AD</i>	<i>AR</i>	<i>DR</i>	<i>D-1</i>	<i>D-1</i>
3	A-2	A-1	A-1	AD	AR	DR	DD	D-1	D-2
4	<i>A-2</i>	<i>A-1</i>	<i>AD</i>	<i>AR</i>	<i>DR</i>	<i>DD</i>	<i>D-1</i>	<i>D-1</i>	<i>D-2</i>
5	A-1	A-1	AR	DR	DD	D-1	D-1	D-2	D-3
6	<i>A-1</i>	<i>AR</i>	<i>DR</i>	<i>DD</i>	<i>D-1</i>	<i>D-1</i>	<i>D-2</i>	<i>D-2</i>	<i>D-3</i>

Units which get combat adds against specific types are:

- Smashers against Hackers
- Hackers against Renders
- Renders against Thrusters
- Thrusters against Smashers

- On 1-5 attacks, all attackers are eliminated. Attacks at worse than 1-5 are not allowed.
- On attacks at 5-1 or better, all defenders are eliminated.
- On attacks at 6-1 or better, the attacker has the overrun option.

Units attacking from the rear also get one add each, regardless of type.

CHITIN: I

THE HARVEST WARS